

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2475/002629	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 00/ 06921	International filing date (day/month/year) 20/07/2000	(Earliest) Priority Date (day/month/year) 22/07/1999
Applicant KNOLL AKTIENGESELLSCHAFT		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☒ contained in the international application in written form.

☒ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**HUMAN HOMOLOGUE OF BOVINE NEUROENDOCRINE SECRETORY PROTEIN, NESP55,
POLYNUCLEOTIDES AND USES THEREOF LINKED WITH OBESITY**

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 23-35, 40-42, 47 and 49 to 52 partially

The interacting polypeptides, nucleic acid encoding therefore and antagonists of claims 23 to 28, compounds identified by the method of claims 29 or 30, the compounds of claims 40 to 42 and compound identified by the method of claim 44 or 45, and methods 49 to 51 and use claim 52 as far as they relate to the compound of claim 47, are insufficiently characterized, comprising no technical features of the products per se, consequently a complete and meaningful search is not possible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/06921

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/16 C07K16/26 A61K38/00 G01N33/56 C12Q1/68
C12N15/11 C07K14/575

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12N A61K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, STRAND, EMBASE, MEDLINE, CAB Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HAYWARD B E ET AL: "BIDIRECTIONAL IMPRINTING OF A SINGLE GENE: GNAS1 ENCODES MATERNALLY, PATERNALLY, AND BIALLELICALLY DERIVED PROTEINS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, December 1998 (1998-12), pages 15475-15480, XP000946062 ISSN: 0027-8424 cited in the application	1-19
Y	the whole document --- -/--	20-22, 29-31, 33, 36-39, 43-46, 48-52

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
"&" document member of the same patent family

Date of the actual completion of the international search

14 November 2000

Date of mailing of the international search report

21/11/2000

Name and mailing address of the ISA

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Authorized officer

Hix, R

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>ISCHIA R ET AL: "MOLECULAR CLONING AND CHARACTERIZATION OF NESP55, A NOVEL CHROMOGRANIN-LIKE PRECURSOR OF A PEPTIDE WITH 5-HT 1B RECEPTOR ANTAGONIST ACTIVITY" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 272, no. 17, 25 April 1997 (1997-04-25), pages 11657-11662, XP000946065 ISSN: 0021-9258 the whole document</p> <p>---</p>	<p>1-22, 29-31, 33, 36-39, 43-46, 48-52</p>
Y	<p>BAUER R. ET AL: "Localization of neuroendocrine secretory protein 55 messenger RNA in the rat brain." NEUROSCIENCE, (1999) 91/2 (685-694). , XP000938250</p> <p>the whole document</p> <p>---</p>	<p>1-22, 29-31, 33, 36-39, 43-46, 48-52</p>
Y	<p>LOVISETTI-SCAMIHORN P. ET AL: "Relative amounts and molecular forms of NESP55 in various bovin tissues." BRAIN RESEARCH, (22 MAY 1999) 829/1-2 (99-106). , XP000938339 the whole document</p> <p>---</p>	<p>1-22, 29-31, 33, 36-39, 43-46, 48-52</p>
Y	<p>BAUER R. ET AL: "The new chromogranin-like protein NESP55 is preferentially localized in adrenaline-synthesizing cells of the bovine and rat adrenal medulla." NEUROSCIENCE LETTERS, (19 MAR 1999) 263/1 (13-16). , XP000949224 the whole document</p> <p>---</p>	<p>1-22, 29-31, 33, 36-39, 43-46, 48-52</p>
P,X	<p>WEISS U. ET AL: "Neuroendocrine secretory protein 55 (NESP55): Alternative splicing onto transcripts of the GNAS gene and posttranslational processing of a maternally expressed protein." NEUROENDOCRINOLOGY, (2000) 71/3 (177-186). , XP000938251 the whole document</p> <p>---</p> <p style="text-align: center;">-/--</p>	<p>1-18</p>

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/06921

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	HAYWARD B.E. ET AL: "An imprinted antisense transcript at the human GNAS1 locus." HUMAN MOLECULAR GENETICS, (22 MAR 2000) 9/5 (835-841). , XP000946068 the whole document ---	1-19
P,X	WROE, STEPHANIE F. ET AL: "An imprinted transcript, antisense to Nesp, adds complexity to the cluste of imprinted genes at the mouse Gnas locus" PROC. NATL. ACAD. SCI. U. S. A. (2000), 97(7), 3342-3346 , XP000938372 figure 1 -----	1-19